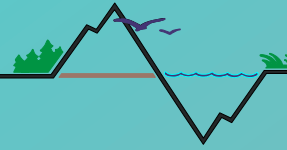


National Estuarine Research Reserve System

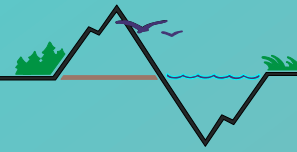


**Kachemak Bay
Research Reserve**

Science Collaborative

December 7th, 2011

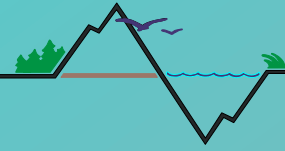
Core Intended User Meeting



What are the Science Collaborative Project Goals?

(In 1-2 sentences)

(What would you tell someone in line at the post office if they asked you about this project?)



Agenda

10:00-10:20 am

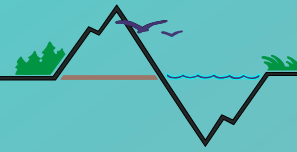
- Introductions - All
- Brief Project Update – Angie
- Review of Sept 21 highlights - Steve

10:20-11:20 am

- Group discussion

11:20-11:30 am

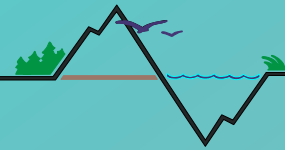
- Evaluation, feedback, questions, other?
- Upcoming events



September 21st CIU mtg

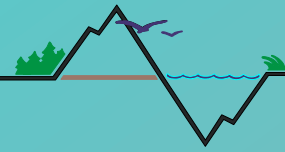
CIU Highlight: Rick Thompson (DNR)

- highlighted the gap between management needs & science
- reinforced the maze/compartments of legal structure
- inherent conflict w/ maximizing use w/ conservation of resources? (use and varying meanings of language)



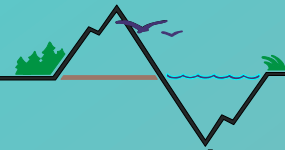
Discussion Topics & Questions

- Are there additional users of this project's data and/or process that have not yet been identified?
- User needs of data – Does our original user and user needs matrix accurately track with present day needs/awareness?
- Familiarity with/Trust in Scientific Process:
 - Difficulty in extrapolating data of specific project area to other areas and/or timeframes
 - Mismatches in conducted research and information needs in management
 - Misalignment in the timeframes of data collection and informed decision-making
- Are there techniques and/or advice for proactively addressing & minimizing political conflict with data delivery?
- Suggestions for ways to improve communication between scientists and decision-makers?
- Shared language of the project – Are we all on the same page of project goals?
- Other ideas for discussion?



Are there additional users of this project's data and/or process that have not yet been identified?

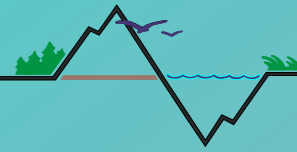
- City of Homer – Planning & Harbor
- Kenai Peninsula Borough – Coastal Program & Mayor
- Seldovia Village Tribe
- Alaska Department of Natural Resources – Division of Mining, Land and Water
- NOAA/NOS/NCCOS- Kasitsna Bay Laboratory
- ADF&G Habitat Division
- AK DOT (Jennifer Witt)
- Greenhorne & O'Mara (Michael Parrish / FEMA engineer)
- UAA (Orson Smith & Tom Ravens)
- US ACE (Julie Anderson, Allen Churchill, Patrick Coullahan)
- North Star Terminal (Wayne Barrowcliff)
- Northern Enterprise (Paul Fleenor)



Does our original user and user needs matrix
accurately track with your present day needs/awareness?

Core Intended Users (CIU)	Justification for listing this User	Organization & Professional Responsibilities	How the User may apply this information
City of Homer – Planning	Mayor requested information on coastal uplift & melting glaciers	Planning, zoning, and maintenance of city/port infrastructure	Predict potential problems and inform zoning and planning
City of Homer – Harbor	Water depth is critical to safe vessel traffic patterns	Maintenance and safety of the harbor users	Planning for harbor expansion and maintenance
Kenai Peninsula Borough	Land use changes including uplift and coastal erosion	Responsible for designating natural hazard areas	Identify potential problems and inform planning and zoning
Seldovia Village Tribe	Predicting changes to the local environment on tribal lands	Responsible for environmental monitoring of subsistence foods	Identify potential problems for subsistence harvest of bivalves/salmon
Alaska Department of Natural Resources – Division of Mining, Land and Water	Primary manager of the state's land holdings	Ensure state title, prepare land use plans, leases & permits on state land	Accretion/reliction due to isostatic uplift
NOAA/NOS/NCCOS- Kasitsna Bay Laboratory	Provides baseline information to KBL mission to understand climate change impacts on coastal ecosystems	Provide science products and tools to inform coastal management decisions	Support studies e.g. habitat impacts of glacial melt, habitat mapping, intertidal community biodiversity
ADF&G Habitat Division	Information for land-use permitting		

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ADF&G Habitat Division			



Familiarity With/ Trust in Scientific Process:

- limitations of methods,
- scope of project,
- difficulty in extrapolating data of specific project area to other areas and/or timeframes
- certainty/uncertainty



How far we can extrapolate depends on what question we are asking of the data.

-If we want to know whether the vertical motion is a lot faster than sea level rise, comparable to it, or negative

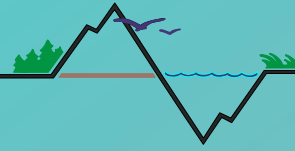
→ then we can probably extrapolate or interpolate a few tens of miles

-If we want to put a specific number on relative sea level change, then we probably need to know it to an uncertainty of about 1 mm/year

→ extrapolation distance shrinks quite a bit

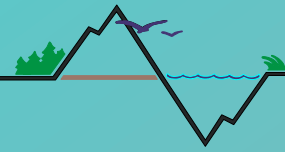
If we have a physical model that adequately explains the observations, then we can use that to interpolate/extrapolate over a longer distance with much more confidence. Ideally, we could make quantitative predictions with associated uncertainties from the model. I hope to get a lot closer to that over the next year. - Jeff

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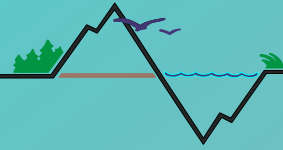
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Mismatches in conducted research and information needs in management

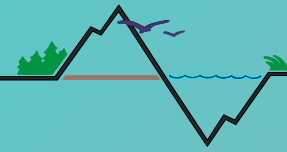


Misalignment in the timeframes of data collection and informed decision-making



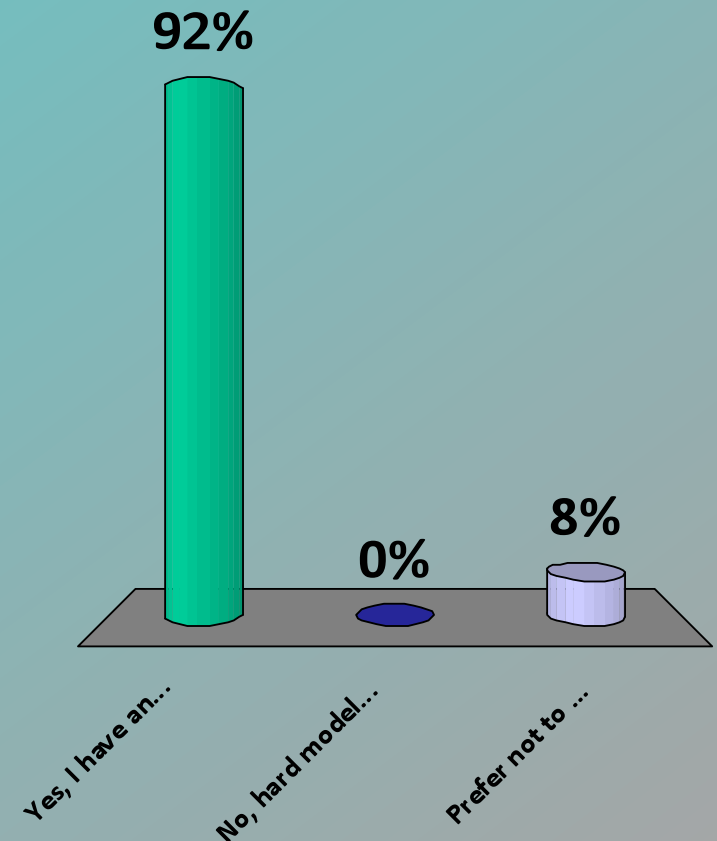


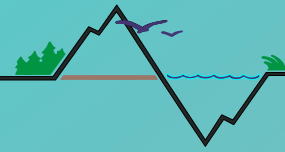
**Are there techniques and/or advice for
proactively addressing & minimizing
political conflict with data delivery?**



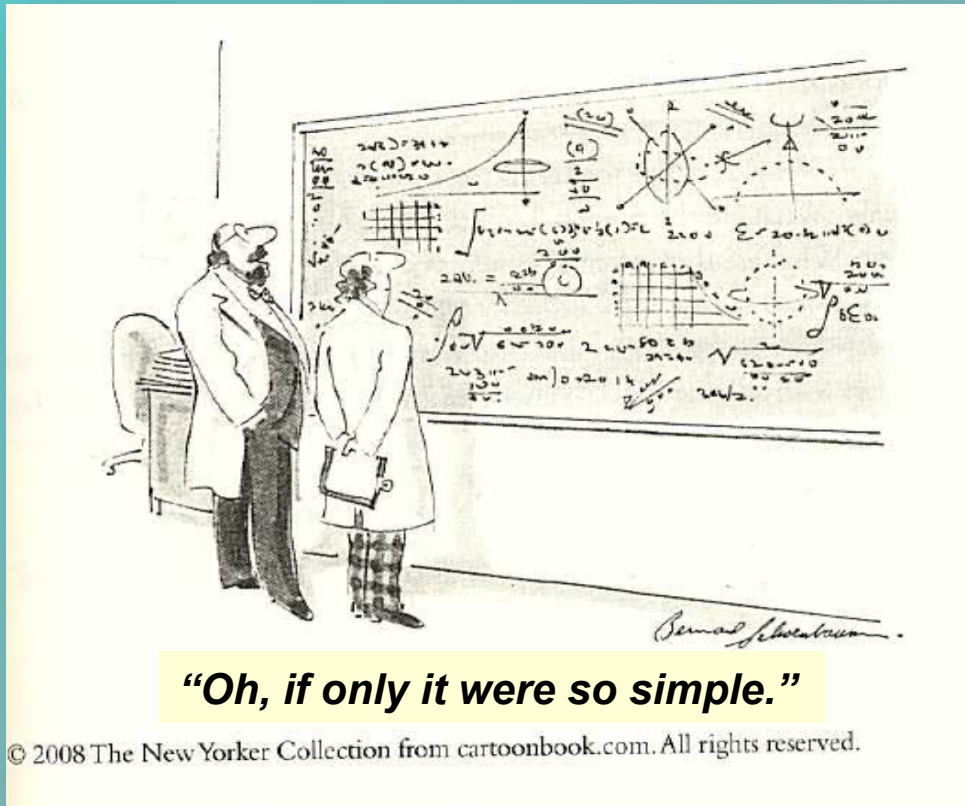
Are you aware of other projects or topics that would benefit from use of the collaborative model?

1. Yes, I have an example or two
2. No, hard model to replicate
3. Prefer not to answer

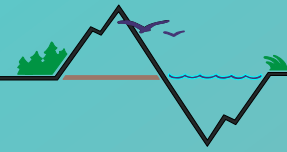




Ways to improve science communication to and amongst decision-makers?

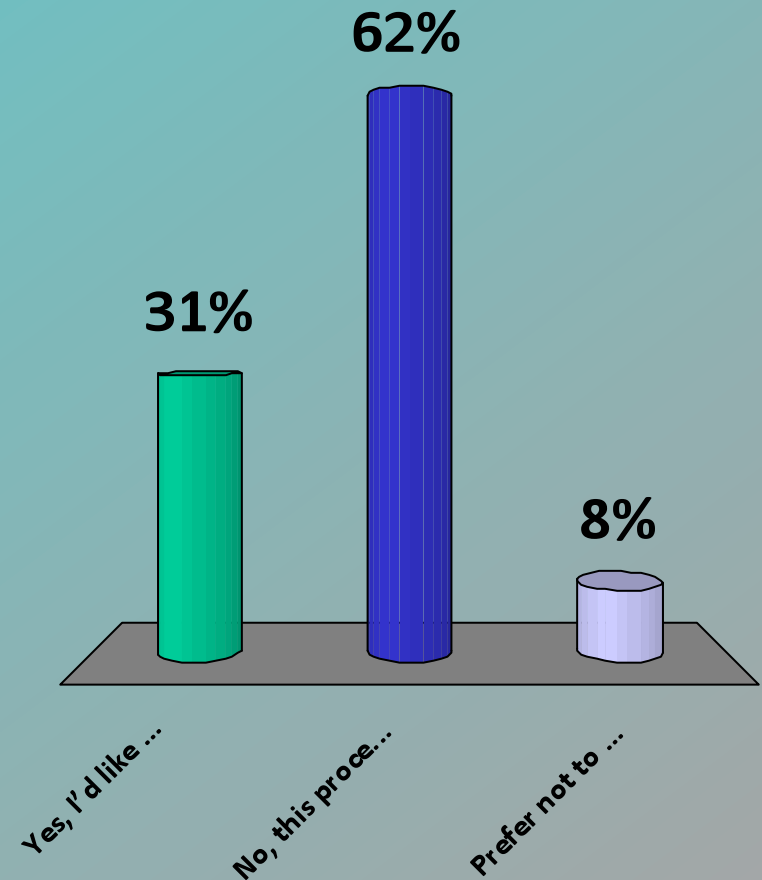


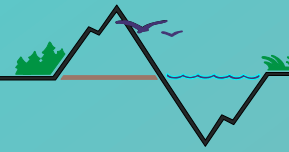
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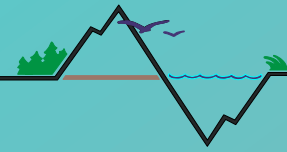
Do you have suggestions for improvement to the information exchange and collaborative process?

1. Yes, I'd like to offer some suggestions
2. No, this process is worthwhile and working for me as is
3. Prefer not to answer



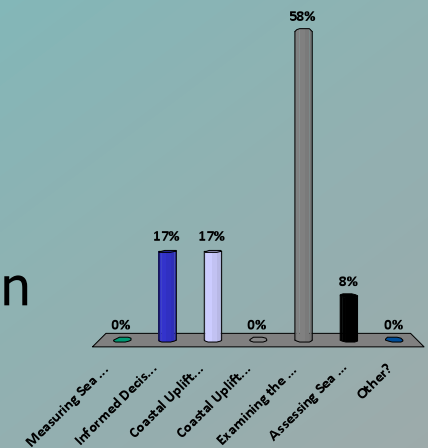


**Shared language of the project –
Are we all on the same page of project goals?**

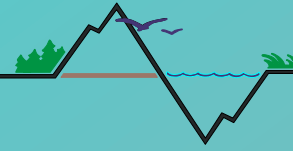


One-liners for Project Title

1. Measuring Sea and Land-level Changes in Kachemak Bay
2. Informed Decision-making in Local Communities: Coastal Uplift, Regional Sea Level Rise, and Habitat Change
3. Coastal Uplift, Regional Sea Level Rise, and Habitat Change: Informed Decision-making in Local Communities
4. Coastal Uplift, Sea Level Rise, and Habitat Change
5. Examining the Influences of Sea & Land Level Changes on Coastal Habitats for Better-Informed Decision-Making
6. Assessing Sea and Land-level Change for Wise Decision-making
7. Other?

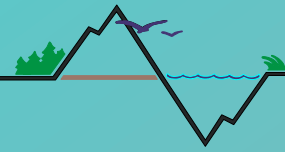


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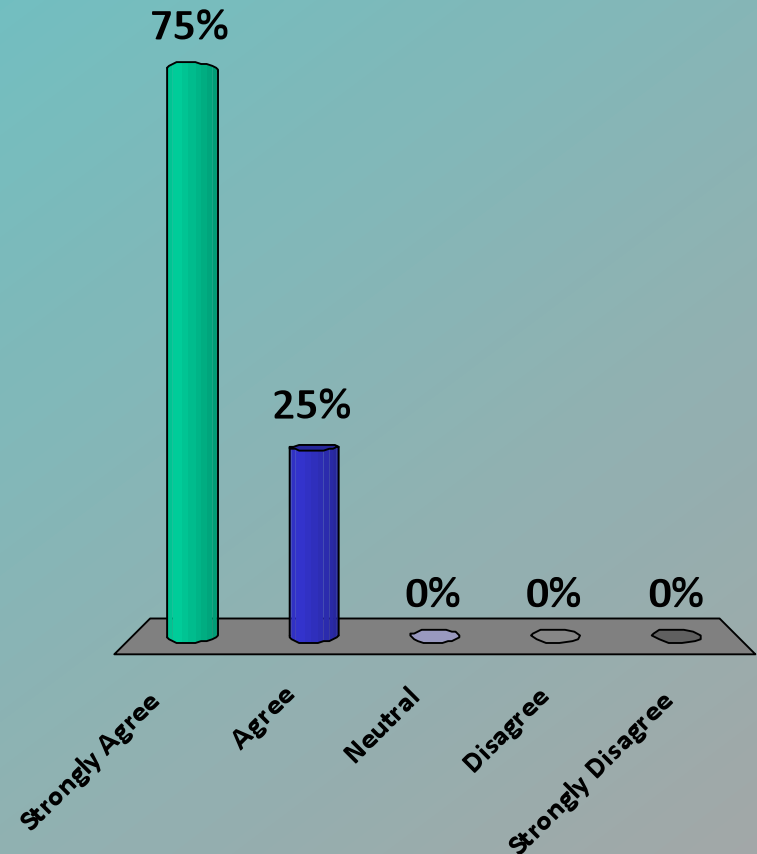
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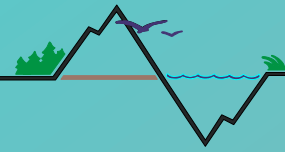
Other ideas or questions for discussion?



Participating in this meeting was a good use of my time

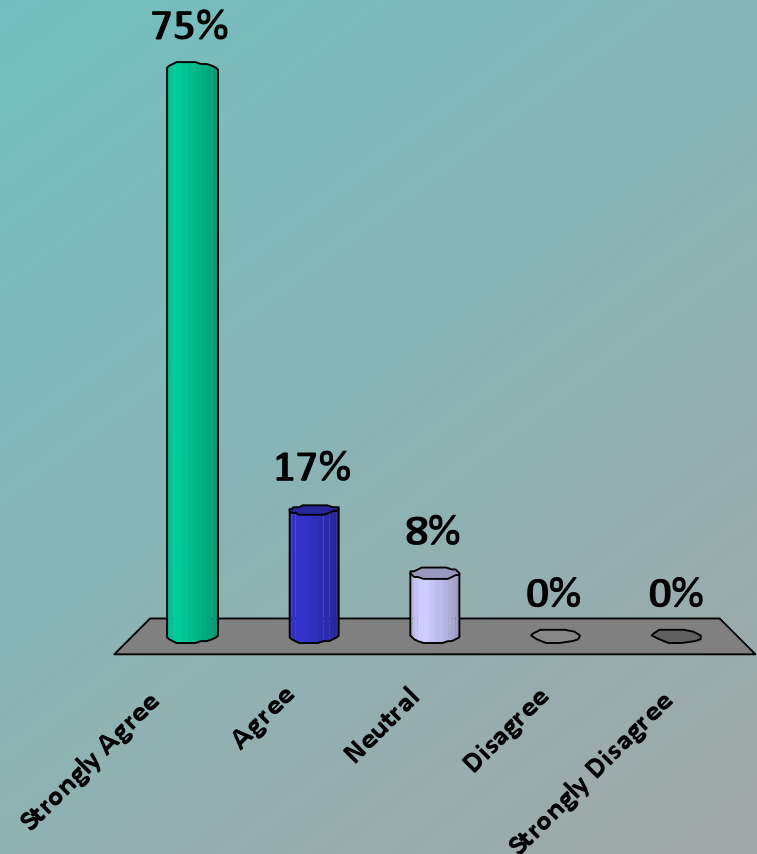
1. Strongly Agree
2. Agree
3. Neutral
4. Disagree
5. Strongly Disagree

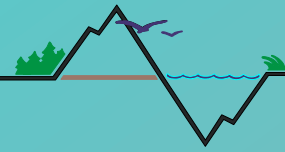




Participating in the CIU meetings has been a good use of my time

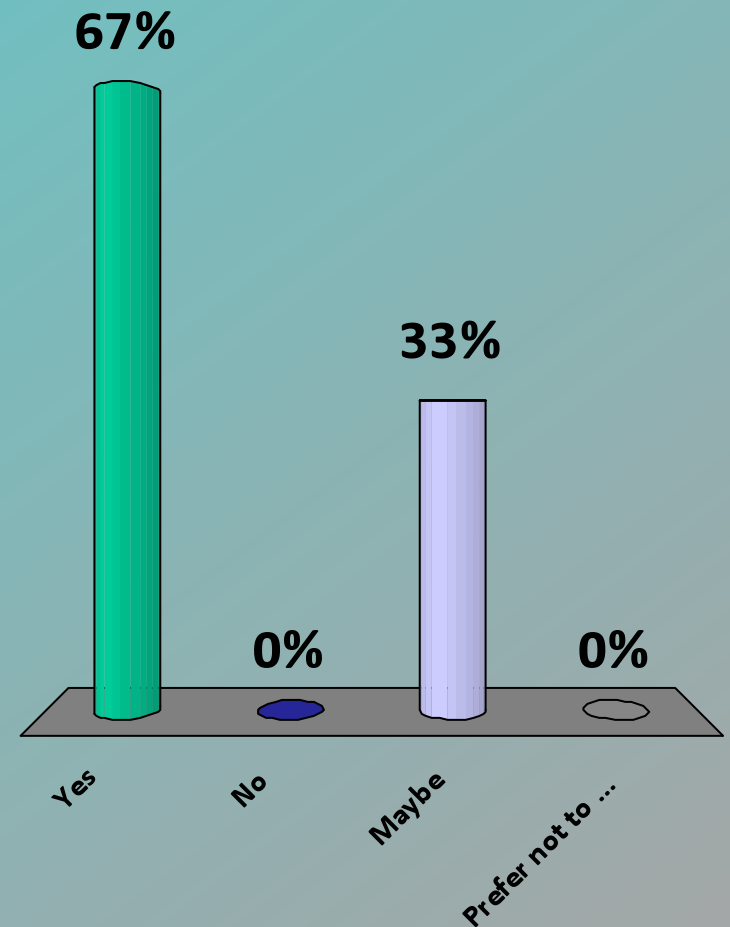
1. Strongly Agree
2. Agree
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4. Disagree
5. Strongly Disagree

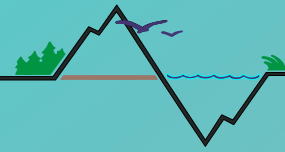




Did you learn something that you will apply in your work or future decisions?

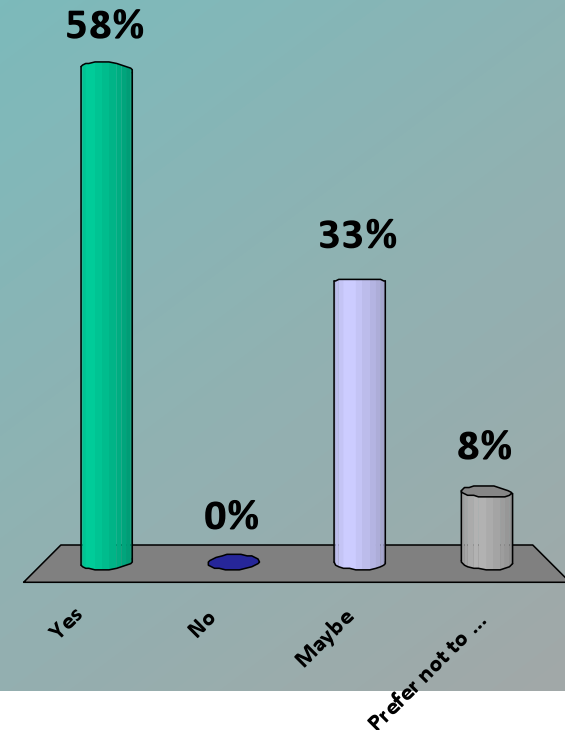
1. Yes
2. No
3. Maybe
4. Prefer not to answer

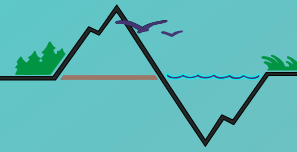




Has participation in the CIU meetings provided any information that you have already applied to your work?

1. Yes
2. No
3. Maybe
4. Prefer not to answer





2012 Meeting Dates

- Wednesday, March 21st
 - Wednesday, June 6th
 - Wednesday, September 19th
 - Wednesday, December 5th
-
- NEXT TUESDAY, December 13th:
7:30-9:30am Holiday breakfast @ AIOVC